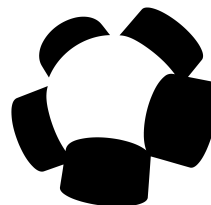


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Hammond X5 & Leslie 760

Project goal

This project is the circuit bending project of the Hammond X5 organ and the Leslie 760 speaker. The goal is to firstly refurbish the gear and then next to modify/circuit bend new features into them.

Set up

The Hammond and the Leslie both need to be connected to a power supply with a regulat computer power cable. The Hammond has the power socket on the underside. The Leslie has the power socket on the panel of the speaker cabinet. The volume pedal needs to be connected to the Hammond at the regular 5 pin DIN on the underside of the Hammond. Finally the 5 pin XLR cable needs to connect the Hammond (main amp) with the Leslie speaker. Power on the gear and give it a try. Please respect our neighbours and your fellow hackers and play moderately and at sensible hours...

Manuals

File:Hammond X5 Service Manual.pdf - Service manual for the Hammond X5 - useage and diagrams

File:Leslie760 Owners Manual.pdf - Owners manual for the Leslie 760 - useage and diagrams

File:Leslie760 Service Manual.pdf - Service manual for the Leslie 760 - useage and diagrams

The workings

The Leslie speaker has two rotating units. One set of rotating high frequency speaker horns, and one rotating device underneath the bass unit. The weird effect is the dopple effect. The units can be set to off, slow and fast rotation.

The Hammond has all kinds of wheel, sliders, knobs and whatnot - too much to descibe in detail...try it out and RTF.

To do

Clean swicthes, pins, connectors etc.

Figure out why not all knobs and switches functions or has any effect???

Why can only one set of the 2 keyboards play at a moderate sound level at a time???

Where do we start circuit bending this gear!?!

Thoughts

I suggest a non-intrusive approach to all modifications. By all means the gear should be short-circuited and extra circuits should be inserted (MIDI, Arduino, LFO's, overdrives, PC IN/OUT to nme but a few - and what about DMX outputs for lights elements). But if we leve on/off switches and plug up our left over cables, we can still retain the original circuits and expand usability by flipping switches.

Links

photo gallery of the quipment